

(U) Project Directive 58-83, AFSC Priority 01: Title: Support D. E. S. Tests (Continued)

7. (S) Rate gyros will be installed in the dummy and seat to determine spin or turn rates.
8. (S) This altitude may be changed by test request to 55,000 feet.
9. (U) Air-to-air photo planes and photographers will be provided by FTFOF and FTFSF (AFFTC). Ground-to-air photo coverage (Big Eye camera) will be required from NPF. Color Ektachrome film (2 - 1200-ft. rolls) will be furnished by FTFSF to NPF.
10. (S) The dummy and seat will be rocketed from the aft cockpit of the F-106B with the aircraft parked on the Marston Matting at the cargo net area.

WORK CENTERS SUPPORT RESPONSIBILITIES

AFFTC - FTFOF

- (U) Test date - prior to 16 May 63 - Test condition No. 1 - (1) F-104D photo aircraft.
- (U) Test date - 16 May 63 - Test condition No. 2 - No requirement.
- (U) Test date - 4 June 63 - Test condition No. 3 - (3) T-38 photo aircraft.
- (U) Test date - 11 June 63 - Test condition No. 4 - (3) F-104D photo aircraft.
- (U) Test date - 18 June 63 - Test condition No. 5 - (3) F-104D photo aircraft or 2 F-104D and 1 T-38 aircraft.
- (U) Test date - 25 June 63 - Test condition No. 6 - (1) Flight Test School F-106B and 2 T-38 aircraft.

FTFSF

- (U) (1) Provide 3 qualified aerial photographers per flight except test condition No. 1 requires one photographer.
- (U) (2) Provide 2 1200-foot rolls of Ektachrome color film for use on the NPF Big Eye camera. The exposed footage will be returned to FTFSF for processing and printing.
- (U) (3) Provide a Mitchell tracker camera and operator to cover test conditions 3 through 6. The Mitchell camera will be run at 100 fps for approximately 900 seconds.
- (U) (4) All air-to-air photo coverage will be at 200 fps. Approximately 1500 seconds of coverage will be required to cover all test conditions.
- (U) (5) Documentary footage will be made on all phases of testing providing it does not interfere with the conduct of the program.
- (U) (6) Uniform title boards for all test motion pictures will be required. Information required on the title boards will be provided by the Project Engineer.
- (U) (7) The 6511th Test Group cannot provide transportation for the Mitchell tracker and operator. It will be the responsibility of FTFSF to insure that the tracker and operator are in place prior to a scheduled test date.
- (U) (8) Four prints of all motion picture coverage are required.
- (U) (9) FTFSF will provide TDY fund citations for photographers when required.

FTL

- (U) Provide guidance and assistance to insure that the test program is conducted as expeditiously as possible without compromising the security of the program.

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USAF review(s) completed.

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(U)Project Directive 58-83, AFSC Priority 01: Title: Support D. E. S. Tests (Continued)

FTLO, FTLOO, FTLOP, FTLOR, FTLOS, FTLOV

- (U)(1) Provide a qualified project pilot for 5 tests.
- (U)(2) Provide schedules as requested for 6 tests.
- (U)(3) Provide a pressure suit for the pilot, if required, for 1 test.
- (U)(4) Provide packing tables for contractors to pack 5 parachute assemblies.
- (U)(5) Provide fabrication facilities to modify five drogue parachute assemblies for telemetric strain link installation.
- (U)(6) Provide personnel to load the rigged dummy in the F-106B aircraft for 6 tests.
- (U)(7) Provide one ejection seat specialist to assist the contractor on preparatory work for 6 tests.
- (U)(8) Provide personnel to recover the dummy, main parachute and drogue parachute at TATU for 4 tests.
- (U)(9) Provide transportation from TATU to the base for test equipment used on 4 tests.
- (U)(10) Provide a drop zone controller to coordinate four tests at TATU.
- (U)(11) Provide fabrication for a heat resistant fabric heat shield for the static test from the F-106B aircraft.
- (U)(12) Provide transportation to Edwards AFB for the Project Engineer the day prior to each of 4 tests to brief the photographers and pilots.

FTLS

- (U)(1) Coordinate with Public Works to obtain Marston Matting in the cargo net area for the static test firing.
- (U)(2) Procure 6 sets of extra large white coveralls from J. C. Penney Co. for 6 tests. Estimated cost: \$4.95 each.

FTLF, FTLEI

- (U)(1) Provide range facilities for 4 tests (RAWIN, radar, cinetheodolite and data reduction).
- (U)(2) Install 4-channel telemetric packages in two seat survival kits to be used on 4 tests.
- (U)(3) Install four rate gyros in the dummies and seats for 4 tests.
- (U)(4) Provide personnel to transcribe recorded telemetric data into graph form.
- (U)(5) Provide personnel to rig four dummies for riser force-vs-time data using the rigging method for LIG-6128.

FTLP

- (U)(1) Provide support to insure that documentation of this program is in order.
- (U)(2) Insure that appropriate distribution of test programs is made.
- (U)(3) Participate in a preplanning conference to determine problem areas, if any.

FTLGM

- (U)(1) Provide a Project Engineer.
- (U)(2) Prepare a test program.
- (U)(3) Conduct two preplanning conferences.
- (U)(4) Initiate test requests for 6 tests.
- (U)(5) Prepare weekly activity reports.
- (U)(6) Prepare monthly progress reports.
- (U)(7) If required, prepare a technical documentary report for publication.

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FTEE

- (U) (1) Provide an F-106B aircraft for 6 tests.
- (U) (2) Provide maintenance personnel to remove the standard canopy and interim seat.
Install the test canopy minus the flyable hatch assembly.
- (U) (3) Provide maintenance support for any or all high performance aircraft that should be required to land at NAF.
- (U) (4) Coordinate with Colonel Thomas at Maintenance Control for approval of the installation of the C-2A ejection seat.
- (U) (5) Provide a tug and personnel to tow the aircraft to the cargo net area when required (1 static test).
- (U) (6) Install three cockpit cameras in the aft cockpit of the F-106B aircraft.
Details will be provided by the Project Engineer.
- (U) (7) Insure that the tail and left wing cameras are operable. If possible obtain a telescope for the right-wing camera.
- (U) (8) Insure that the pilot has a camera off-on switch.
- (U) (9) Insure that the pilot has a telemetry off-on switch.

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DATA REQUIREMENTS - DETAILS

(II) LIC 9341

PHOTO REQUIREMENTS - DETAILS

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(U) LIC 341

WHIRL TOWER	DROP TOWER	WATER AREA	OTHER
N/A	N/A	N/A	(U) TATU Range

SPECIAL SUPPORT EQUIPMENT

TRANSPORTATION (U) TATU recovery vehicles	LOAD HANDLING (Loading and Retrieving) (U) fork lift to load dummies in the aft cockpit of the F-106B	OTHER (U) Photo chase planes, Mitchell tracker and photographers, AFFTC
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NON-DROP TEST REQUIREMENTS (Bench Tests, Crane Dops, etc)

(U) Public Works will lay tubulated steel planking from 7th Street out to the cargo net area for a static test firing of the dummy and seat from the F-106B aircraft.

AIRCRAFT REQUIREMENT

TYPE	DROP	SUPPORT	HOURS
(U)F-106B	3:00	2:00	9:00
(U)F-104D		6:00	6:00
(U)T-38		10:00	10:00
		TOTAL:	25:00

ESTIMATED MANHOURS REQUIRED

SECURITY INSTRUCTIONS

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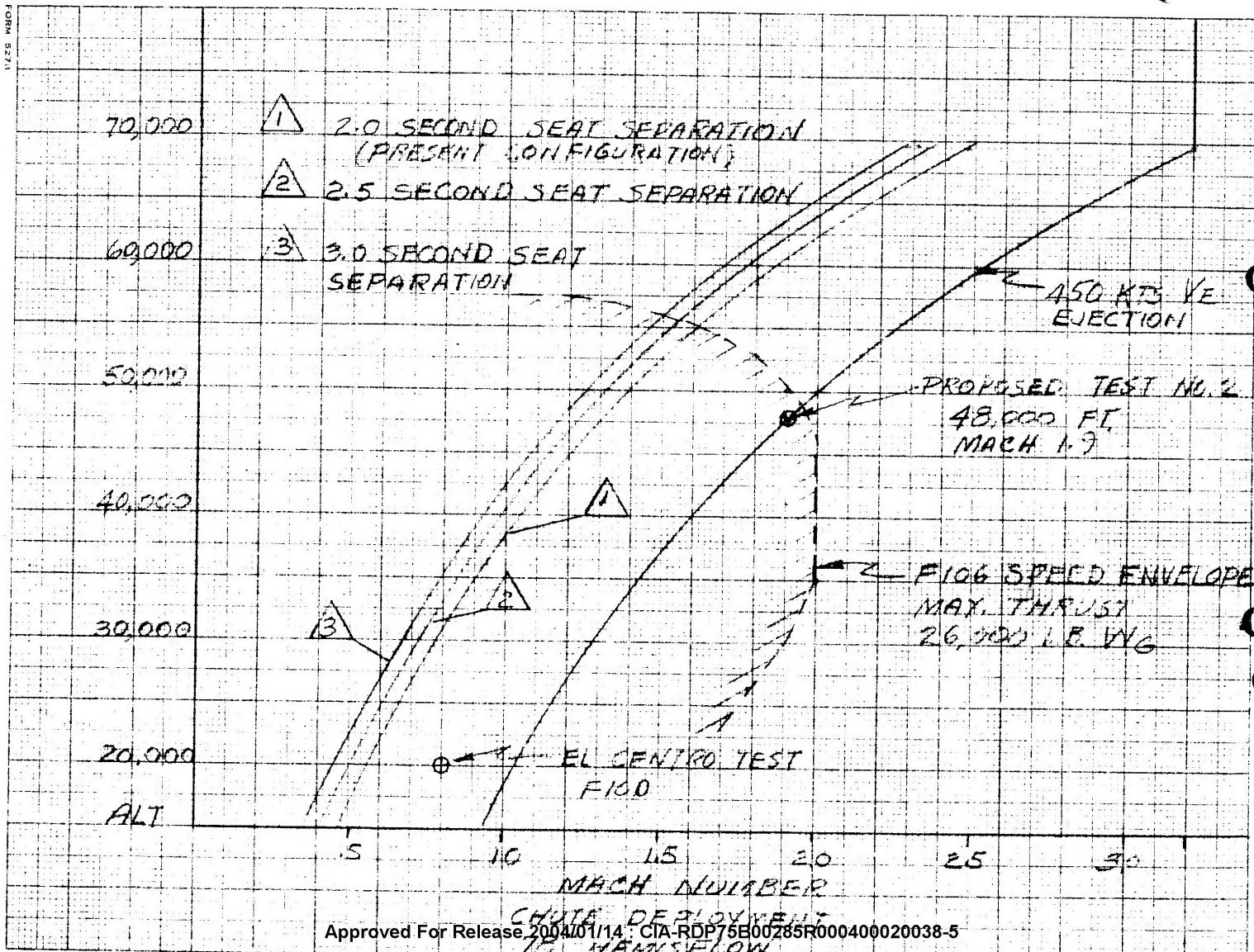
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	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	1	2	3	4	1	2	3	4
(U) ACTION CODE ¹								S	1	5	R	R																				

OTHER COMMENTS

¹ C = Test Complete R = Report Due S = Preparation T = Testing X = Filter Code

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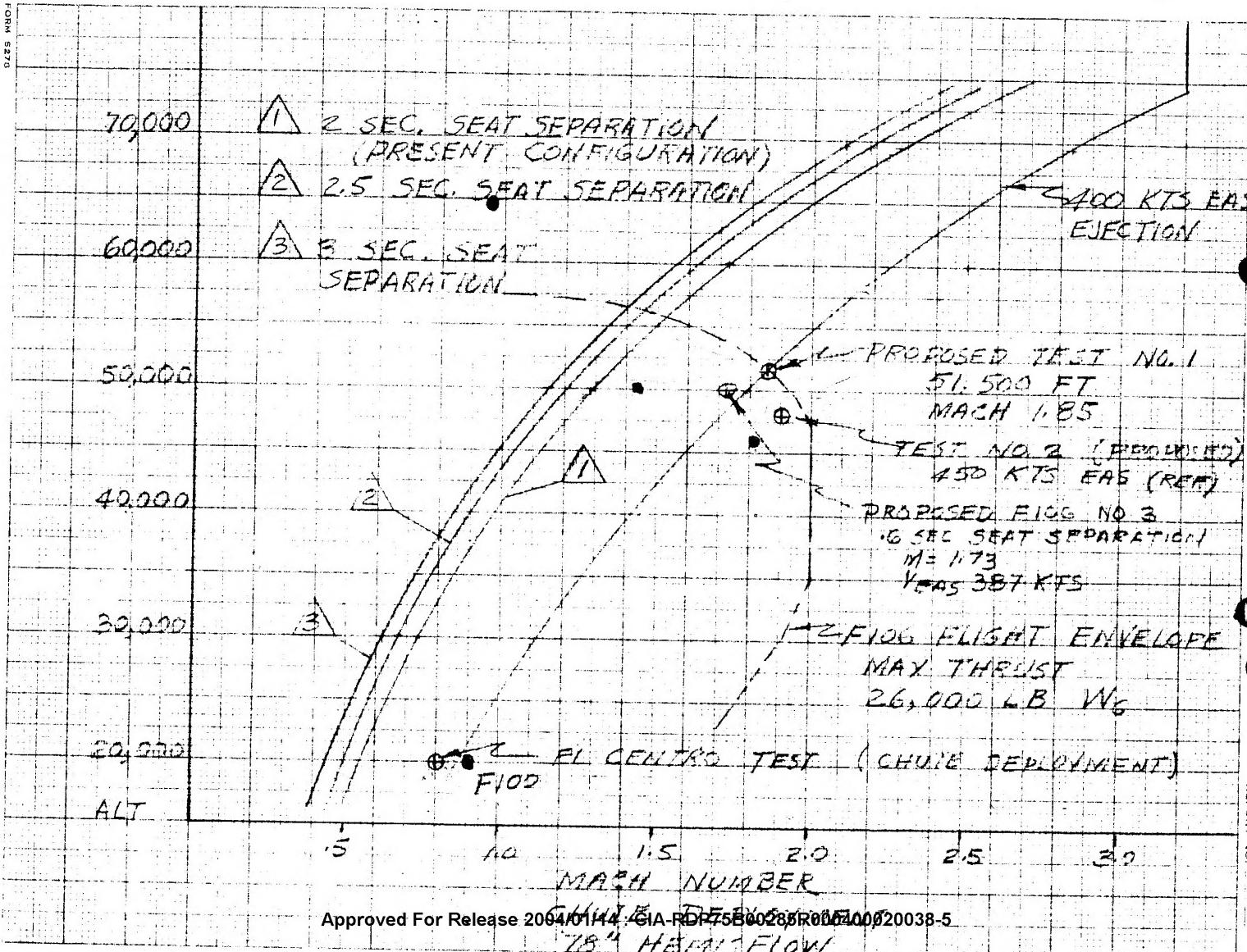


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PREPARED BY: *LJ ZOG*
DATE: *10/17/62*
CHECKED BY:

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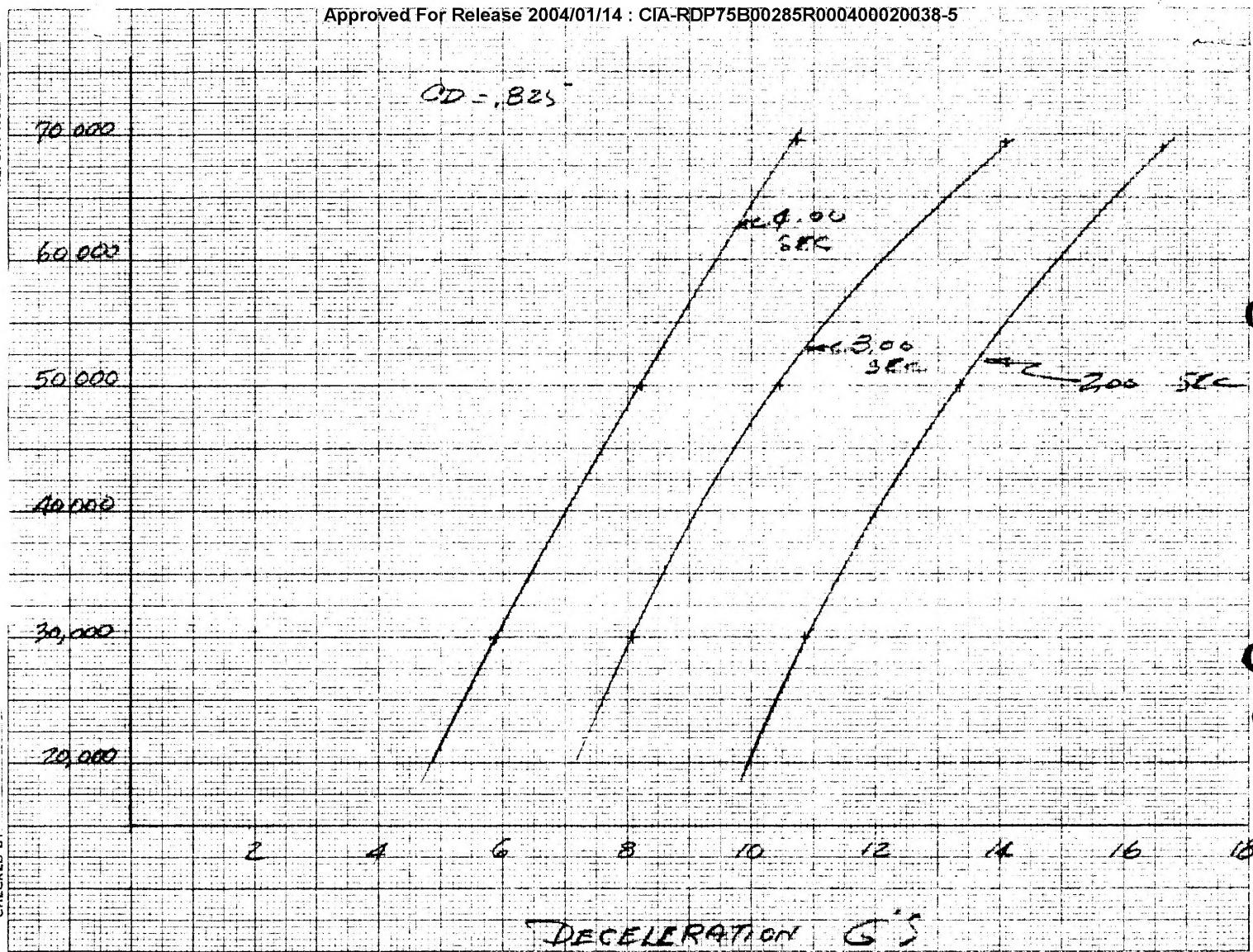
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PREPARED BY
DATE 2-15-63
CHECKED BY

CHUTE DEPLOYMENT FORCE

VE 450 KTS SEAT EJECTION
CD = .025, 73° HEMIS FLOW

70,000

60,000

50,000

40,000

30,000

20,000

4.00 SEC DELAY

< 3.00 SEC DELAY

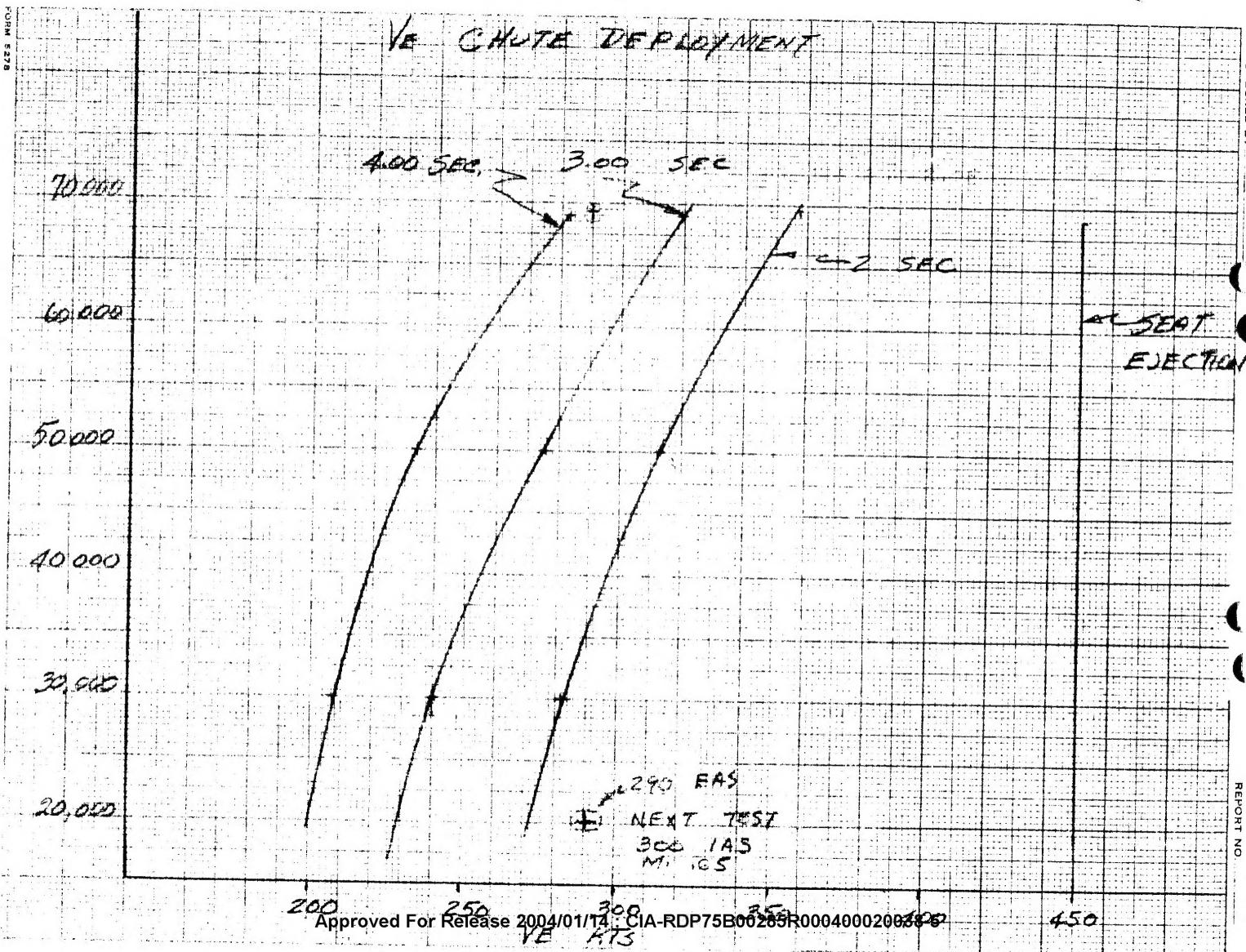
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